

Title (en)  
DISPENSER FOR USE WITH REFILL CARTRIDGE

Title (de)  
SPENDER FÜR NACHFÜLLPATRONE

Title (fr)  
DISTRIBUTEUR DESTINÉ À ÊTRE UTILISÉ AVEC UNE CARTOUCHE DE RECHARGE

Publication  
**EP 4048126 A1 20220831 (EN)**

Application  
**EP 19805025 A 20191025**

Priority  
• US 2019058171 W 20191025  
• US 201916664148 A 20191025

Abstract (en)  
[origin: US2021121024A1] Dispensers of the present technology are configured to receive a replaceable refill cartridge, and may include a back housing, a front cover, a control unit, a refill housing configured to receive a refill cartridge, and a switch board positioned between the refill housing and the back housing. Dispensers may also include at least one refill guide removably connected to the refill housing. The switch board may include at least one switch operatively connected to the control unit. The at least one switch may be a refill recognition switch configured to send at least a refill recognition signal to the control unit indicating that a refill cartridge is present in the refill housing, or a refill size switch configured to send a refill size signal to the control unit indicating a size of the refill cartridge.

IPC 8 full level  
**A47K 5/12** (2006.01); **A61L 9/14** (2006.01)

CPC (source: EP US)  
**A47K 5/1217** (2013.01 - EP US); **A61L 9/14** (2013.01 - EP); **A61L 2209/111** (2013.01 - EP); **A61L 2209/12** (2013.01 - EP); **A61L 2209/132** (2013.01 - EP); **A61L 2209/133** (2013.01 - EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**US 11089915 B2 20210817**; **US 2021121024 A1 20210429**; EP 4048126 A1 20220831; US 11793365 B2 20231024; US 2021338017 A1 20211104; WO 2021080616 A1 20210429

DOCDB simple family (application)  
**US 201916664148 A 20191025**; EP 19805025 A 20191025; US 2019058171 W 20191025; US 202117374234 A 20210713